

IN THE CLAIMS:

Please amend the claims as shown below.

1. (Currently Amended) A data processing apparatus for transmitting a document formed by a plurality of logical pages to a printing device, comprising:

spooling means for spooling the plurality of logical pages for each of a plurality of sets;

deriving means for deriving a number of logical pages from said spooling means, wherein the derived number of logical pages is fewer than an entirety of the spooled logical pages, and wherein the derived number of logical pages corresponds to values obtained by adding 1 (one) to numerical factors of a total number of the logical pages spooled by said spooling means;

retrieval means for retrieving, from among the derived number of logical pages derived by said deriving means, one logical page identical in drawing information to a first logical page;

determination means for determining drawing information from the first logical page to a logical page just previous to the one logical page retrieved by said retrieval means to be drawing information for one of the plurality of sets;

generation means for generating a print command to be transmitted to the printing device based on the drawing information for the one set determined by said determination means; and

transmission means for transmitting the print command generated by said generation means to the printing device.

2. (Previously Presented) The data processing apparatus according to claim 1,

further comprising designation means for designating a printing mode including a double-sided printing mode for printing drawing information on both sides of one print sheet, and a N-up printing mode for outputting a plurality of logical pages on a face of one print sheet, wherein said retrieval means retrieves the one logical page in response to designation of the printing mode.

3. (Previously Presented) The data processing apparatus according to claim 1,

wherein said retrieval means retrieves the one logical page based on data sizes of the one logical page and the first logical page.

4. (Previously Presented) The data processing apparatus according to claim 1,

wherein said retrieval means retrieves the one logical page by performing a sampling process on the one logical page and the first logical page.

5. (Previously Presented) The data processing apparatus according to claim 1,

wherein said retrieval means retrieves the one logical page by comparing all spool codes for the first logical page with all spool codes for the remaining logical pages.

6. (Previously Presented) The data processing apparatus according to claim 1,

wherein if the printing device cannot store the print command for the plurality of logical pages for each set, said generation means generates a print command indicating the number of the sets and a print command for printing the drawing information for the one set determined by said determination means.

7. (Previously Presented) The data processing apparatus according to claim 1,

wherein if the printing device can store the print command for the plurality of logical pages for each set, said spooling means stores drawing information for each logical page, and said transmission means transmits the print command generated by said generation means until said retrieval means retrieves the one logical page to the printing device, and thereafter if the document is determined to be a collate document based on the logical pages subsequent to the retrieved one logical page, said transmission means transmits a print command indicating the number of the sets.

8. to 18. (Cancelled)

19. (Currently Amended) A job processing method for use with a data processing apparatus which transmits to a printing device a document formed by a plurality of logical pages the method comprising:

a spooling step of spooling the plurality of logical pages for each of a plurality of sets;

a deriving step of deriving a number of logical pages from said spooling step, wherein the derived number of logical pages is fewer than an entirety of the spooled logical pages, and wherein the derived number of logical pages corresponds to values obtained by adding 1 (one) to numerical factors of a total number of the logical pages spooled by said spooling step;

a retrieving step of retrieving, from among the derived number of logical pages derived by said deriving step, one logical page identical in drawing information to a first logical page;

a determining step of determining drawing information from the first logical page to a logical page just previous to the one logical page retrieved in said retrieving step to be drawing information for one of the plurality of sets;

a generating step of generating a print command to be transmitted to the printing device based on the drawing information for the one set determined in said determining step; and

a transmitting step of transmitting the print command generated in said generating step to the printing device.

20. (Currently Amended) A data processing program stored on a computer-readable storage medium, the program being executed by a data processing apparatus so as to control the data processing apparatus to transmit to a printing device a document formed by a plurality of logical pages the program comprising:

a spooling step of spooling the plurality of logical pages for each of a plurality of sets;

a deriving step of deriving a number of logical pages from said spooling step, wherein the derived number of logical pages is fewer than an entirety of the spooled logical pages, and wherein the derived the number of logical pages corresponds to values obtained by adding 1 (one) to numerical factors of a total number of the logical pages spooled by said spooling step;

a retrieving step of retrieving, from among the derived number of logical pages derived by said deriving step, one logical page identical in drawing information to a first logical page;

a determining step of determining drawing information from the first logical page to a logical page just previous to the one logical page retrieved in said retrieving step to be drawing information for one of the plurality of sets;

a generating step of generating a print command to be transmitted to the printing device based on the drawing information for the one set determined in said determining step; and

a transmitting step of transmitting the print command generated in said generating step to the printing device.